mental Policy Act. According to the Nuclear Waste Policy Act, the final environmental impact statement and any associated comments must be included with the Secretary's determination of site recommendation. The Committee is concerned that the Department has not dedicated sufficient resources to address this issue. Furthermore, the Committee is concerned that a failure to incorporate this information into a possible decision about site suitability will lead to additional delays and cost overruns in the Yucca Mountain site characterization program. The Committee recommends the Department allocate appropriate funds to complete the environment impact statement on transportation of nuclear waste.

Finally, the Committee is concerned that the costs of the repository, which have clearly escalated, are still not well understood by the Department. To say the least, it is disturbing that overall costs have nearly doubled (from \$30,000,000,000 to \$58,000,000,000) since the early 1990's. More troubling is the \$12,000,000,000 increase in costs during just the last 3 years. It is difficult, for example, to understand the implications to design, licensing, construction, and operational costs of such dramatic differences in concepts as represented by the change from a sealed repository to a monitored, retrievable storage facility. The Department is encouraged to maintain current construction and operational cost assessments for the proposed repository that provide comparable costs of the design and operational concepts that remain viable options as the site characterization and performance assessments proceed.

The Committee has provided \$2,500,000 for the State of Nevada and \$6,000,000 for affected units of local government in accordance with the statutory restrictions contained in the Nuclear Waste Pol-

icy Act.

# SCIENCE

Appropriations, 2001	\$3,180,341,000
Budget estimate, 2002	3,159,890,000
Committee recommendation	3 268 116 000

The Committee recognizes that the relatively small funding increases provided to the Office of Science are inadequate. While most programs are funded above the Administration's request, the severe non-defense spending constraints that the Committee operates under have made it impossible to to do justice to many of these outstanding programs and initiatives. Unlike the Administration's request, the Committee recommendation is sufficient to avoid any staff reductions at labs or universities.

### HIGH ENERGY PHYSICS

Appropriations, 2001	\$726,130,000
Budget estimate, 2002	716,100,000
Committee recommendation	725,100,000

The Committee recommendation includes \$725,100,000 for high energy physics, an increase of \$9,000,000 over the request. Within the amounts provided, the Committee recommends \$2,000,000 for materials development of low temperature superconductors to support future high energy physics requirements; and an additional \$7,000,000 for university support. Within available funds, the Com-

mittee recommends \$1,000,000 for research, development, and initial demonstration in support of an experiment, to be conducted underground at the Waste Isolation Pilot Plant, to evaluate the mass of the neutrino through study of double beta decay of xenon-136. These funds may be used for extraction of the xenon-136 in a Russian nuclear city in coordination with the NNSA/Non-Proliferation programs.

### NUCLEAR PHYSICS

Appropriations, 2001	\$369,890,000
Budget estimate, 2002	360,510,000
Committee recommendation	373,000,000

The Committee recommends \$373,000,000 for nuclear physics, an increase of \$12,490,000 above the request and an increase of \$3,110,000 above current year levels. The Committee recommends that the additional funds be used to enhance operation of the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory and the Continuous Electron Beam Accelerator Facility at the Thomas Jefferson National Accelerator Facility in Virginia.

# BIOLOGICAL AND ENVIRONMENTAL RESEARCH

Appropriations, 2001	\$501,260,000
Budget estimate, 2002	442,970,000
Committee recommendation	490,000,000

The Committee recommendation includes \$490,000,000 for biological and environmental research, including \$10,000,000 for construction of the laboratory for Comparative and Functional Genomics at Oak Ridge National Laboratory. The recommendation includes an additional \$16,000,000 above the requested level for the Genomes to Life program and \$10,000,000 in additional funding above the requested level for the low dose effects program. Within the recommended amount, the Committee also recommends \$7,000,000 in additional funding for computer upgrades and capital equipment costs at the Environmental Molecular Sciences Laboratory (EMSL); \$11,500,000 to complete the positron emission tomography facility at West Virginia University; and funding to continue the following on-going projects: the Natural Energy Laboratory in Hawaii, and the biological effects of exposure to low-level radioactivity. The recommendation also continues the free air carbon dioxide experiments at the current year level.

### BASIC ENERGY SCIENCES

Appropriations, 2001	\$1,013,370,000
Budget estimate, 2002	1,004,705,000
Committee recommendation	1,040,705,000

The Committee recommendation includes \$1,040,705,000, an increase of \$36,000,000 above the request and an increase of \$27,335,000 over current year levels. For purposes of reprogramming in fiscal year 2002, the Department may allocate funding among all operating accounts within basic energy sciences upon written notice to the appropriate Congressional Committees.

The Committee recommendation includes \$12,000,000 for the Department's Experimental Program to Stimulate Competitive Re-

search and \$4,000,000 for programmatic activities at the National Center of Excellence in Photonics and Microsystems. The Committee's recommendation also includes \$8,300,000 for the SPEAR 3 upgrade at the Stanford Synchrotron Radiation Laboratory.

Additionally, the Committee recommends that the additional funds be used to support the following important activities: facility operations user support; completion of the Nanoscience Research Center project engineering and design; and additional work in computational sciences in materials and chemistry.

Nanoscale Science Research Centers.—The Committee recommendation includes \$4,000,000 for project engineering design work for three of five planned user centers for nanoscale science, engineering, and technology research. The Committee strongly supports this new initiative.

Construction.—The Committee recommendation includes \$291,000,000 to continue the Spallation Neutron Source, including \$276,300,000 for construction (under Project 99–E–334) and \$15,100,000 for other activities related to the project. The amount represents a \$23,000,000 increase over current year funding. The Committee recommends \$4,000,000 in project engineering and design funding at various locations (under Project 02–SC–002). The Committee also authorizes construction of the Nanoscience Research Center upon completion of the project engineering and design.

The Committee recognizes the importance the SNS offers in advancing the frontiers of science and technology and the opportunities it will provide for future scientific and industrial research and development for the United States. The design and construction of this next-generation, accelerator-based, neutron scattering facility, located at the Oak Ridge National Laboratory, is a collaborative effort involving six DOE national laboratories (Argonne, Brookhaven, Jefferson, Lawrence Berkeley, Los Alamos, and Oak Ridge).

# SAFEGUARDS AND SECURITY

The Committee recommendation provides \$49,818,000 for safeguards and security. This is the amount of the current year level and \$5,594,000 less than the Administration's request. The Committee remains unconvinced that such a large 1-year increase is warranted.

# SCIENCE PROGRAM DIRECTION

The Committee recommendation provides \$142,385,000 for science program direction, the amount of the request and \$3,140,000 above the current year.

### OTHER ENERGY RESEARCH PROGRAMS

Appropriations, 2001	\$171,000,000
Budget estimate, 2002	164,050,000
Committee recommendation	163,050,000

The Committee recommendation provides \$163,050,000 for other energy research programs, an increase of \$18,050,000 over the current year appropriation.

Advanced Scientific Computing Research.—The Committee recommendation provides \$163,050,000 for advanced scientific computing research. This amount is the amount of the request. The Committee directs that \$15,000,000 of available funds be used to support the Scientific Discovery Through Advanced Computing (SciDAC) program and that \$10,000,000 of available funds be used for terascale operating systems development.

# MULTI-PROGRAM ENERGY LABORATORIES FACILITIES SUPPORT

The Committee recommends \$30,175,000, the amount of the request, for multi-program energy laboratories facilities support. The amount recommended is \$3,755,000 less than the current year. The program supports infrastructure activities at the five national labs under the direction of the Office of Science.

The recommendation includes construction funding for two projects, 02–SC–001 and MEL–001, at the level of the request.

# FUSION ENERGY SCIENCES

Appropriations, 2001	\$255,000,000
Budget estimate, 2002	248,495,000
Committee recommendation	248,495,000

The Committee recommendation for fusion energy sciences is \$248,495,000, the amount of the request.

# DEPARTMENTAL ADMINISTRATION

### (GROSS)

Appropriations, 2001	\$225,942,000
Budget estimate, 2002	221,618,000
Committee recommendation	208,948,000

#### (MISCELLANEOUS REVENUES)

Appropriations, 2001	-\$151,000,000
Budget estimate, 2002	-137,810,000
Committee recommendation	-137,810,000

The Department recommends \$208,948,000 for departmental administration, a decrease of \$12,670,000 from the Administration's request.

# INSPECTOR GENERAL

Appropriations, 2001	\$31,430,000
Budget estimate, 2002	31,430,000
Committee recommendation	30,000,000

The Committee has provided \$30,000,000 for the Office of the Inspector General.

### RECOMMENDATION SUMMARY

Details of the Committee's recommendations are included in the table at the end of this title.

# ATOMIC ENERGY DEFENSE ACTIVITIES

Atomic energy defense activities of the Department of Energy are provided for in two categories—the National Nuclear Security Ad-

# DEPARTMENT OF ENERGY—Continued

[In thousands of dollars]

Decinal Mile	Project title Current year Budget Committee	Committee recommendation compared to—			
rioject title	enactéd	Curren	Current year enacted	Budget estimate	
Total, Other uranium activities	62,400	110,784	120,784	+ 58,384	+ 10,000
Reduction for safeguards and security	- 14,071 - 865			+ 14,071 + 865	
TOTAL, URANIUM FACILITIES MAINTENANCE AND REMEDIATION	392,502	363,425	408,725	+ 16,223	+ 45,300
SCIENCE					
High energy physics: Research and technology Facility operations Construction:	234,720 459,010	247,870 456,830	256,870 456,830	+ 22,150 - 2,180	+ 9,000
00-G-307 SLAC office building 99-G-306 Wilson hall safety improvements, Fermilab 98-G-304 Neutrinos at the main injector, Fermilab	5,200 4,200 23,000	11,400	11,400	- 5,200 - 4,200 - 11,600	
Subtotal, Construction	32,400	11,400	11,400	-21,000	
Subtotal, Facility operations	491,410	468,230	468,230	- 23,180	
Total, High energy physics	726,130	716,100	725,100	-1,030	+ 9,000
Nuclear physics	369,890	360,510	373,000	+ 3,110	+ 12,490
Biological and environmental research	498,760 2,500	432,970 10,000	480,000 10,000	- 18,760 + 7,500	+ 47,030
Total, Biological and environmental research	501,260	442,970	490,000	- 11,260	+ 47,030

Basic energy sciences program:  Materials sciences Chemical sciences Engineering and geosciences Energy biosciences Construction:	456,111 223,229 40,816 33,714	434,353 218,714 38,938 32,400	454,353 228,714 42,938 34,400	-1,758 + 5,485 + 2,122 + 686	+ 20,000 + 10,000 + 4,000 + 2,000
02–SC–002 Project engineering and design (VL)	259,500	4,000 276,300	4,000 276,300	+ 4,000 + 16,800	
Subtotal, Construction	259,500	280,300	280,300	+20,800	
Total, Basic energy sciences	1,013,370	1,004,705	1,040,705	+ 27,335	+ 36,000
Advanced scientific computing research  Energy research analyses	170,000 1,000	163,050 1,000	163,050 1,000	- 6,950 	
Multiprogram energy labs—facility support: Infrastructure support Oak Ridge landlord Construction:	1,160 10,711	1,020 7,359	1,020 7,359	-140 -3,352	
MEL-001 Multiprogram energy laboratory infrastructure projects, various locations	22,059	18,613 3,183	18,613 3,183	-3,446 + 3,183	
Subtotal, Construction	22,059	21,796	21,796	- 263	
Total, Multiprogram energy labs—fac. support	33,930	30,175	30,175	- 3,755	
Fusion energy sciences program  Facilities and infrastructure  Safeguards and security	255,000 49,818	248,495 55,412	248,495 10,000 49,818	- 6,505 + 10,000	+ 10,000 - 5,594
	10,010	30,112	10,010		5,55.
Program direction: Field offices Headquarters Science education	83,307 51,438 4,500	64,400 73,525 4,460	63,000 74,385 5,000	- 20,307 + 22,947 + 500	-1,400 +860 +540
Total, Program direction	139,245	142,385	142,385	+ 3,140	
Subtotal, Science	3,259,643	3,164,802	3,273,728	+ 14,085	+ 108,926

# DEPARTMENT OF ENERGY—Continued

[In thousands of dollars]

Project title	Current year enacted	Budget estimate	Committee recommendation	Committee recommendation compared to—	
				Current year enacted	Budget estimate
Across-the-board cut (.22 percent) (Public Law 106–554)  General reduction  Reduction for safeguards and security  Less security charge for reimbursable work	-7,011 -34,047 -38,244			+7,011 +34,047 +38,244 -4,912	
TOTAL, SCIENCE	3,180,341	3,159,890	3,268,816	+ 88,475	+ 108,926
NUCLEAR WASTE DISPOSAL  Repository program	135,200 62,800 - 420 - 6,926	70,577 64,402	15,000 10,000	- 120,200 - 52,800 + 420 + 6,926	- 55,577 - 54,402
TOTAL, NUCLEAR WASTE DISPOSAL	190,654	134,979	25,000	- 165,654	- 109,979
DEPARTMENTAL ADMINISTRATION					
Administrative operations:  Salaries and expenses:  Office of the Secretary  Board of Contract Appeals  Chief financial officer  Contract reform and privatization  Engineering and project management  Congressional and intergovernmental affairs  Economic impact and diversity  General counsel  International affairs	5,000 5,126 22,724 8,500	4,700 911 36,464 5,478 5,230 23,058 8,481	4,700 911 34,000 	- 300 + 33 + 1,852 - 2,500 	- 2,464 
Management and administration	77,800 6,600	76,392 6,649	69,000 6,600	- 8,800 	- 7,392 - 49